

Question	Answer
11.	Conditional: If a \square is a rect., then it has 4 rt. \angle . Converse: If a \square has 4 rt. \angle , then it is a rect.
12.	Conditional: If a lunar eclipse occurs, then Earth is between the Sun and the Moon. Converse: If Earth is between the Sun and the Moon, then a lunar eclipse occurs.
13.	Converse: If it is the weekend, then today is Saturday or Sunday. Biconditional: Today is Saturday or Sunday if and only if it is the weekend.
15.	Converse: If a \triangle is a rt. \triangle , then it contains a rt. \angle . Biconditional: A \triangle contains a rt. \angle if and only if it is a rt. \triangle
16.	F; possible answer: Felipe could be a runner.
17.	T
18.	A fig. is a \bigcirc iff it is the set of all pts. that are a fixed dist. from a given pt.
19.	A player is a catcher iff the player is positioned behind home plate and catches throws from the pitcher.
24.	An equil. \triangle is a \triangle with $3 \cong$ sides.
28.	Possible answer: A computer is a machine that performs computations but is not a calculator.
30.	no
35.	A statement is a bicond. iff it can be written in the form " p iff q ." Cond.: If a statement is a bicond., then it can be written in the form " p iff q ." Conv.: If a statement can be written in the form " p iff q ," then it is a bicond.. Since the cond. and its conv. are true, the def. is true.

Question	Answer
36.	Possible answer: If you write the def. as a biconditional, "A ray is an \angle bisector iff it divides the \angle into 2 \cong \angle s," then you can use it either forward or backward. If you know the ray is an \angle bisector, then you can conclude that the 2 \angle s formed are \cong . If you know that 2 adj. \angle s formed by a ray are \cong , then you can conclude that the ray is an \angle bisector.
37a.	If I say it, then I mean it. If I mean it, then I say it.
37b.	Possible answer: Alice implies "I say it iff I mean it." This bicond. is not true. People often mean things without saying them or say things they don't mean.
42.	The two ovals will exactly overlap. If one condition is met, then the other is necessarily met, which is true of the conditions in a good def.